

01-20-04

HDP/SB/21 based on PTO/SB/21 (08-00)

Please type a plus sign (+) inside this box → ☒**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/702,379	
	Filing Date	November 5, 2003	
	First Named Inventor	Earl M. Ort	
	Group Art Unit		
	Examiner Name		
Total Number of Pages in This Submission		Attorney Docket Number	0275Y-000679

ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): 7-page Form HDP-1449 (citing 74 U.S. Patents, 57 Foreign documents and 3 Other documents); 1 copy each of 2 Other documents; return receipt postcard.
Remarks		The Commissioner is hereby authorized to charge any additional fees that may be required under 37 CFR 1.16 or 1.17 to Deposit Account No. 02-2548. A duplicate copy of this sheet is enclosed.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Harness, Dickey & Pierce, P.L.C.	Attorney Name	Roland A. Fuller	Reg. No.	31,160
Signature					
Date	January 16, 2004				

CERTIFICATE OF MAILING/TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service as express mail in an envelope addressed to: Director of the U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450, or facsimile transmitted to the U.S. Patent and Trademark Office on the date indicated below.

Typed or printed name	Susan Steinke	Express Mail Label No.	EV 406 075 802 US (1/16/2004)
Signature		Date	January 16, 2004

EV 406 075 802 US

m



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/702,379

Filing Date: November 5, 2003

Applicant: Earl M. Ortt

Group Art Unit:

Examiner:

Title: A STATOR ASSEMBLY WITH AN OVERMOLDING THAT
SECURES MAGNETS TO A FLUX RING AND THE FLUX RING
TO A STATOR HOUSING

Attorney Docket: 0275Y-000679

Director of the United States Patent and Trademark Office

P.O. Box 1450

Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. **LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION**

The patents, publications and other information requested to be considered by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

II. **COPIES**

A. ☐ Submitted herewith is a legible copy of (i) each U.S. patent application publication and U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; (iii) for each cited pending U.S. application, the application specification including the claims, and any drawing of the application which caused it to be listed including the claims directed to that portion; and (iv) all other information or that portion which caused it to be listed.

B. ☒ Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Serial Number

U.S. Filing Date

10/468,643

August 20, 2003

C. ☒ Because the present application was/is being filed after June 30, 2003, no copies of the U.S. patents or U.S. patent application publications which are listed on the attached Form 1449 are enclosed pursuant to the waiver of 37 C.F.R. § 1.98(a)(2)(i). Any foreign patent documents or non-patent literature listed on the attached Form 1449 are enclosed herewith.

D. ☐ This is a PCT application in the entry of the National Phase in the United States. A copy of the International Search Report is attached for the Examiner's information. The documents listed on the International Search Report are listed on the attached Form 1449 for consideration by the Examiner and for listing on any patent resulting from this application. Since the International Search report was from the US, EPO, or JPO search authorities, copies of these references should have been supplied to the USPTO under the trilateral agreement and are believed to be in the file of the above-identified application. (MPEP 1893.03(g).)

III. CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)

A. ☒ Except as may be indicated below in (B), all of the patents, publications or other information are in the English language (concise explanation not required).

B. ☒ A concise explanation of the relevance of each patent, publication or other information listed that is not in the English language is as follows (see 37 C.F.R. § 1.98(a)(3)):

1. ☐ See the attached foreign patent office communication from a counterpart foreign application:

2. ☒ English translations or English abstracts were provided in USSN 10/468,643 for:

WO 97/05687; JP 2000-324733; JP 11-299147; JP 3-293943; JP 3-265437; JP 10-256031; JP 2001-169485; JP 2000-152535; JP 2001-69703; JP 64-64546; JP 55-56476; DE 2827 068 C2; DE 19 41 169 C2; DE 100 09 151 C2; DE 199 42 029 A1; DE 31 35 217 A1; DE 42 13 374 A1; DE 100 51 308 A1; DE 199 11 261 C2; FR 2 445 053; DE 28 35 441 A1; DE 40 33 454 A1; DE 23 42 499; DE 197 05

432 A1; DE 39 13 618 C2; DE 30 23 743 A1; DE 27 35 778; DE 100 53 692 A1; DE 195 17 668 A1; DE 35 10 845 A1; FR 2 617 344; DE DT 25 05 937 A1; DE 28 55 986; DE 42 40 995 A1; FR 2 518 927; GB 1 576 917; Europe 0 809 878 B1; UK 2202170; FR 2617344.

3. ☒ Other:

1. German Utility Model GM 1 909 063 (Deutsche Edeistahliwerke) which was filed on December 12, 1964 and which was published on January 28, 1965, describes in general the stator for an electric motor. Figure 1 of this document shows two ring shaped magnet segments 1, two semicylindrical flux ring segments 2 and a tubular motor can 5. Two longitudinal ribs 4 are formed on the inner surface of the motor can 5 for alignment of the flux ring segments 2. The magnet segments 1 are radially magnetized and are overmolded with plastic material or non-ferromagnetic metal. Therefore, the basic concept of this document is similar to that of the E&D stator assembly. However, pockets of the flux ring for receiving the magnet segments are not described in this document. Nevertheless, this document could be relevant regarding inventive step.

2. German Utility Model GM 6 601 157 (Siemens AG) which was filed on July 11, 1968 and which was published on February 13, 1969, describes in general means for securing a bundle of lamination sheets to the stator of an electric motor. Figures 1 and 2 of this document show a tubular motor can 3 and a bundle of lamination sheets 1 which sheets 1 being secured to each other by means of strips 2. Further, spacing members 4 of plastic material are provided for damping vibrations of the lamination sheets (see figure 1). In figure 2, a lining 5 of plastic material is formed. It is obvious from the drawings that the strips 2 are arranged in the lining 2 for alignment of the lamination sheets. Therefore, this document is merely partly important regarding some aspects of the B&D stator.

3. German Utility Model GM 75 04 284 (Johannes Hobner Fabrik elektrischer Maschinen) which was filed on February 13, 1975 and which was published on October 27, 1977, describes in general an arrangement of magnets in the housing of an electric motor. As you can see from figure 1, four magnets (10, 11, 12, 13) are embedded in a covering (14) of plastic material for fixing the magnets in predetermined positions. Further, it is disclosed in claims 4 and 5 of this document that the plastic material of the covering (14) is injection-molded or casted into the housing (15) of the electric motor. This means that the magnets (10, 11, 12, 13) have to be attached at the inner wall of the housing before the injection-molding process or the casting process takes place. Otherwise, according to claim 6, is it also possible to press in the covering (14) into the housing which means that the covering including the magnets is a separate member before pressing in the covering into the housing. However, this document does not disclose the securing of magnets to the inner wall of the housing or to a flux ring by means of anchors or magnet pockets. As can be seen from figure 1, the plastic material has through hole (16) through which bolts can pass. Finally, this document does not contain any information whether the magnets are lightly magnetized or not.

4. German Utility Model GM 76 08 871 (VDO Adolf Schindling AG) which was filed on March 23, 1976 and which was published on July 15, 1976, describes in general an electric motor. This document merely describes in the introductory part of the description that methods are known for securing magnets to a stator housing by placing the magnets in stator housing and molding plastic around them. Therefore, this document does not

seem to be relevant regarding the above aspects of the B&D invention.

5. UO Sho 50—68807, Laid open on Jun.19, 1975, Applicant:

Tanaka Keiki Kogyo. Two non-magnetic half-ring parts 2 built-in an annular magnet 1 put together and form a cylinder with elastic members 3 between the facing sides. As a result, even a brittle material such as ferrite can protect from the inserting damages. (Fig.2)

6. UO Hei 3—77247, Laid open on Aug.2, 1991, Applicant:

Mitsubishi Denki, A rotor of a rotary electric machine is provided with a rotary pivot 1 of magnetic material, a plurality of permanent magnets 2a, 2b placed around the surface of the rotary pivot 1 in an axial direction, and a retainer for fixing the permanent magnets 2a, 2b on the rotary pivot 1. Then dumping materials 6 consisting of synthetic resin are filled in a crevice between permanent magnets 2a, 2b and a magnet press steel 3. Therefore, there is no space between permanent magnets 2a, 2b and a magnet retainer 3, which can protect permanent magnets 2a, 2b from the damage in assembling. (Fig.1)

7. UO Sho 54-1 64828, Laid open on Nov.19, 1979, Applicant:

Nippon Dense, Elastic members 8 adjacent to each end of magnets 2 hold the magnet 2, a plurality of pockets 7 for a wedge are provided between each pocket 9 for a magnet 2 in a magnet case 4, and a plurality of wedges 12 having larger size than that of the wedge pockets 9 are inserted into the magnet pockets 7. Even if magnet 2 dimension slightly changed, absorbing this can make the magnet 2 fixed securely. (Fig. 1)

8. German Utility Model DE 84 27 703 DI (Robert Bosch

GmbH) which was filed on September 20, 1984 and published on March 6, 1986 describes in general an electric machine having permanent magnets secured to the rotor of the machine. As can be seen in the drawings, four permanent magnet segments 5 are arranged around the core 3 of the rotor 1. These magnet segments 5 are spaced from each other to define gaps 6 between the magnet segments 5. Further, the magnet segments 5 are secured within a frame of plastic material attached to the cylindrical core 3 of the rotor. The frame consists of two plastic discs 7 connected by means of longitudinal legs 8 which are arranged within the gaps to hold the magnet segments. It is obvious from the drawings that the legs 8 and the adjacent edges of the magnet segments are matingly formed to secure the magnet elements against the core of the rotor. The basic idea is similar to that of the second search (PD-TN-3080) . However, this document does not seem to be relevant regarding novelty and inventive step because not pockets are formed in the core of the rotor to accommodate the magnet segments.

9. German Patent DE 23 02 947 C2 (Ford—Werke AG) (claiming priority of US 3,789,250) which was filed on January 22, 1973 and which was first published on August 9, 1973, also describes in general a permanent magnet dynamoelectric machine structure as in the above document 9. A first embodiment is described in combination with figure 4 in column 4, starting at line 27 of the priority document, and a second embodiment which is not disclosed in the German document is described in combination with figures 5 and 6 in column 6, starting at line 15 of the priority document. In particular, the second embodiment could be relevant regarding some aspects of the E&D disclosure.

10. FR 1 588 988 was cited in the prosecution file of 2 617 344.

C. ☐ The following additional information is provided for the Examiner's consideration.

IV. CROSS REFERENCE TO RELATED APPLICATION(S)

A. ☒ The Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this(these) application(s) to the Examiner's attention, Applicant(s) does (do) not waive the confidentiality provisions of 35 U.S.C. § 122.

Serial No.
10/468,643

Filing Date
August 20, 2003

Art Unit
2834

V. THIS IDS IS BEING FILED UNDER

A. ☒ **37 C.F.R. § 1.97(b):** (check only one box)

1. ☐ within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.

2. ☐ within three months of the date of entry of the national stage as set forth in § 1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required.

3. ☒ before the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required.

4. ☐ before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required.

B. ☐ **37 C.F.R. § 1.97(c):** (check only one box)

before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution.

1. ☐ No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

2. ☐ See the certification below. No fee is required.

C. ☐ **37 C.F.R. § 1.97(d):**

after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.

1. ☐ See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

VI. CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box)

The undersigned hereby certifies that:

A. ☐ each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F.R. 1.704(d) below in section VII, if applicable; or

B. ☐ no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)).

C. ☐ some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS.

VII. STATEMENT UNDER 37 C.F.R. 1.704(d)

The undersigned hereby states that:

☐ each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this IDS.

VI. PAYMENT OF FEES (check only one box)

A. ☐ A check in the amount of \$180.00 is enclosed for the above identified fee.

B. ☐ Please charge Deposit Account No. 02-2548 in the amount of \$180.00 for the above-indicated fee. A duplicate copy of this paper is attached.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 02-2548.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 02-2548.

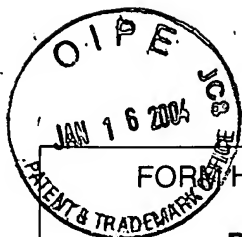
Respectfully submitted,

Dated: Mar 16, 2004

By: RA. Fuller
Roland A. Fuller
Reg. No. 31,160

Harness, Dickey & Pierce, P.L.C.
P.O. Box 828
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(248) 641-1600

RAF/ss



FORM HDP-1449 (Based on Form PTO-1449)

**PATENT AND TRADEMARK OFFICE
INFORMATION DISCLOSURE CITATION**

(Use several sheets if necessary)

Sheet 1 of 7

ATTORNEY DOCKET NO.

SERIAL NO.

0275Y-000679

10/702,379

APPLICANT

Earl M. Ort

FILING DATE

GROUP

November 5, 2003

U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.		787,184	04/11/1905	Jacobson		
2.		3,258,623	06/28/1966	Phelon et al.		
3.		3,296,471	01/03/1967	Cochardt		
4.		3,390,291	06/25/1968	Eberline et al.		
5.		3,422,294	01/14/1969	Parker		
6.		3,436,815	04/08/1969	M.W. Sheets		
7.		3,445,692	05/20/1969	Kato		
8.		3,445,693	05/20/1969	Crawshaw et al.		
9.		3,510,707	05/05/1970	Stone		
10.		3,710,291	01/09/1973	Nicoud		
11.		3,766,418	10/16/1973	Apostoleris		
12.		3,789,250	01/29/1974	Macoit et al.		
13.		3,887,826	06/03/1975	Apostoleris		
14.		4,012,651	03/15/1977	Burson		
15.		4,015,154	03/29/1977	Tanaka et al.		
16.		4,155,021	05/15/1979	Corbach et al.		
17.		4,159,562	07/03/1979	Liptak et al.		
18.		4,209,724	06/24/1980	Periou		
19.		4,219,752	05/26/1980	Katou		
20.		4,260,916	04/07/1981	Theissig		
21.		4,323,806	04/06/1982	Aoki		
22.		4,383,192	05/10/1983	Sikorra		

Examiner:

Date Considered:

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM HDP-1449 (Based on Form PTO-1449)

**PATENT AND TRADEMARK OFFICE
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(Use several sheets if necessary)

Sheet 2 of 7

ATTORNEY DOCKET NO.	SERIAL No.
0275Y-000679	10/702,379
APPLICANT	
Earl M. Ort	
FILING DATE	GROUP
November 5, 2003	

U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
23.		4,453,097	06/05/1984	Lordo		
24.		4,464,595 A	08/07/1984	Hamano et al.		
25.		4,573,258	03/04/1986	Ito et al.		
26.		4,591,749	05/27/1986	Gauthier et al.		
27.		4,594,525	06/10/1986	Stokes		
28.		4,625,392	12/02/1986	Stokes		
29.		4,665,333	05/12/1987	Heim et al.		
30.		4,683,393	07/28/1987	Stokes		
31.		4,724,348	02/09/1988	Stokes		
32.		4,757,603	07/19/1988	Stokes		
33.		4,769,624	09/06/1988	Merritt et al.		
34.		4,777,717	10/18/1988	Okamoto		
35.		4,792,712	12/20/1988	Stokes		
36.		4,793,054	12/27/1988	Abbratozzato et al.		
37.		4,795,932	01/03/1989	Long		
38.		4,801,834	01/31/1989	Stokes		
39.		4,827,173	05/02/1989	Corbach et al.		
40.		4,850,100	07/25/1989	Stokes		
41.		4,873,461	10/10/1989	Brennan et al.		
42.		4,879,485	11/07/1989	Tassinario		

Examiner:

Date Considered:

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Sheet 3 of 7

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Earl M. Ortt

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November 5, 2003

U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
43.		4,910,861	03/27/1990	Dohogne		
44.		4,916,344	04/10/1990	Hammer et al.		
45.		4,918,801	04/24/1990	Schwarz et al.		
46.		4,953,284	09/04/1990	Hammer et al.		
47.		5,038,460	08/03/1991	Ide et al.		
48.		5,075,605	12/24/1991	Hendricks et al.		
49.		5,121,021	06/09/1992	Ward		
50.		5,264,749	11/23/1993	Maeda et al.		
51.		5,268,607	12/07/1993	McManus		
52.		5,341,561	08/30/1994	Schorm et al.		
53.		5,353,491 A	10/11/1994	Gentry et al.		
54.		5,475,276 A	12/12/1995	Shiga et al.		
55.		5,584,114 A	12/17/1996	McManus		
56.		5,646,467	07/08/1997	Floresta et al.		
57.		5,705,970	01/06/1998	Nishida et al.		
58.		5,714,827	02/03/1998	Hansson		
59.		5,731,646 A	03/24/1998	Heinze et al.		
60.		5,806,169	09/15/1998	Trago et al.		
61.		5,811,908	09/22/1998	Iwata et al.		
62.		5,828,152	10/27/1998	Takeda et al.		

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Date Considered:

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Sheet 4 of 7

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November 5, 2003

U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
63.		5,831,364	11/03/1998	Buse		
64.		5,845,389	12/08/1998	Roberts et al.		
65.		5,861,695	01/19/1999	Brassard		
66.		5,874,794	02/23/1999	Trammell et al.		
67.		5,960,532	10/05/1999	Hill		
68.		5,998,902	12/07/1999	Sleder, Sr. et al.		
69.		6,002,185	12/14/1999	Nakao et al.		
70.		6,006,416	12/28/1999	Katagiri		
71.		6,020,661	02/01/1990	Trago et al.		
72.		6,060,799 A	05/09/2000	McManus et al.		
73.		6,177,751	01/23/2001	Suzuki et al.		
74.		6,281,612	08/28/2001	Asao et al.		

FOREIGN PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	No
1.		WO/97 05687	02/13/1997	PCT		Abstract	
2.		2000-324733	11/24/2000	Japan		Abstract	
3.		11-299147	10/29/1999	Japan		Abstract	
4.		3-293943	12/25/1991	Japan		Abstract	
5.		3-265437	11/26/1991	Japan		Abstract	

Examiner:

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Sheet 5 of 7

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Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	No
6.		10-256031	09/25/1998	Japan		Abstract	
7.		2001-169485	06/22/2001	Japan		Abstract	
8.		54-164828	11/19/1979	Japan			X
9.		2000-152535	05/30/2000	Japan		Abstract	
10.		3-77247	08/02/1991	Japan			X
11.		50-68807	06/19/1975	Japan			X
12.		2001-69703	03/16/2001	Japan		Abstract	
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Sheet 6 of 7

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FOREIGN PATENT DOCUMENTS

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Sheet 7 of 7

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